

WHAT IS CLAIMED IS:

1. A high roof structure of a vehicle comprising:
a high roof formed in a container shape using a FRP (Fiber Reinforced Plastics)
5 and being provided with a reinforcing structure, wherein said high roof is covered on a cut-away portion of a ceiling portion of a vehicle body; and
a flange part bent inwardly from the roof on the entire portions of a front part, a rear part and a side part of the high roof, wherein said flange part is engaged with each roof rail part of the vehicle body by an adhering means and an engaging means.
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2. A high roof structure of a vehicle according to claim 1, wherein said reinforcing structure is fabricated in such a manner that a plurality of reinforcing members, each having a channel-shaped cross section, are longitudinally installed in an inner surface of the high roof in a vertical direction and a horizontal direction,
15 respectively.
3. A high roof structure of a vehicle according to claim 1, wherein said front part and rear part of the high roof are engaged using an engaging means including a bolt passing through the flange part, outer panel of a vehicle body and a roof rail and a nut
20 engaged to the bolt in a state that an adhering means is coated between the flange part bent inwardly and outer panel of the vehicle body of a corresponding roof rail part.
4. A high roof structure of a vehicle according to claim 1, wherein said side part of the high roof comprises:
25 an inner side flange part formed in such a manner that the flange part is bent inwardly from the roof, wherein said inner side flange part is engaged to an upper surface of a side outer panel of the roof side rail part; and
an outer side flange part that covers the side outer panel from the outer side and is engaged.
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5. A high roof structure of a vehicle according to claim 4, wherein said inner side flange part is engaged by an engaging means including a bolt passing through the inner side flange part, a side outer panel and a side inner panel and a nut engaged with the bolt in a state that an adhering means is coated between an upper surface of the side

outer panel.

6. A high roof structure of a vehicle according to claim 5, wherein said engaging means further comprises a reinforcing plate between the nut and an upper
5 surface of the side outer panel, wherein said reinforcing plate has a lateral surface closely contacting with an inner surface of the roof, and a form part formed based on a bolt engaging angle at the nut engaging portion.

7. A high roof structure of a vehicle according to claim 4, wherein said
10 outer flange part is compressed in a state that an adhering means is coated between the side outer panels, wherein a sealant is coated on the entire surrounding portions of the side part between the lower end of the outer side flange part and the side outer panel.

8. A high roof structure of a vehicle as in claims 1, wherein said adhering
15 means is a sikaflex.

9. A high roof structure of a vehicle according to claim 1, wherein a
weather strip is engaged on the entire surrounding portions in the roof rear rail part of the vehicle body covered by the high roof and an inner end portion of the side rail part.
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10. A high roof structure of a vehicle according to claim 1, wherein a protector is inserted into a portion of a bow that is removed from the roof side rail part covered by the high roof.